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("memory page" and packets and video)
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1 Scanning workstation memory for malicious codes using dedicated coprocessors

 Shirish A. Kondi, Yoginder S. Dandass

March 2006 ACM-SE 44: Proceedings of the 44th annual Southeast regional conference

Publisher: ACM

Full text available:  Pdf (176.91 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 59, Citation Count: 0

This paper describes the implementation of a coprocessor platform for scanning workstation memory to detect signatures of malicious codes. The coprocessor is especially beneficial in clusters of workstations used for high performance computing ...

Keywords: FPGA, coprocessor, intrusion detection, signature matching

2 Workload models of VBR video traffic and their use in resource allocation policies

Pietro Manzoni, Paolo Cremonesi, Giuseppe Serazzi

June 1999 IEEE/ACM Transactions on Networking (TON), Volume 7 Issue 3

Publisher: IEEE Press

Full text available:  Pdf (390.58 KB) Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 26, Citation Count: 6

Keywords: burstiness, communication systems performance, delay-sensitive traffic, multimedia communication, networks

3 Cost-effective streaming server implementation using Hi-tactix

 Damien Le Moal, Tadashi Takeuchi, Tadaaki Bandoh

December 2002 MULTIMEDIA '02: Proceedings of the tenth ACM international conference on Multimedia

Publisher: ACM

Full text available:  Pdf (271.85 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 49, Citation Count: 2

High performance and high quality for continuous media stream delivery needed by streaming systems cannot be achieved efficiently using general-purpose operating systems, due to the overhead of the I/O mechanism implementation generally used. ...

Keywords: audio/video streaming, operating system, quicktime, real-time

4 A performance study of data layout techniques for improving data locality in refinement-based pathfinding



Robert Niewiadomski, José Nelson Amaral, Robert C. Holte

December 2004 Journal of Experimental Algorithms (JEA). Volume 9

Publisher: ACM

Full text available: Pdf (1.46 MB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 106, Citation Count: 2

The widening gap between processor speed and memory latency increases the importance of cache structures and algorithms to exploit temporal and spatial locality. Refinement-based pathfinding algorithms, such as Classic Refinement (CR), find quality ...

Keywords: Cache-conscious algorithms, classical refinement, pathfinding

5 A principled approach to operating system construction in Haskell



Thomas Hallgren, Mark P. Jones, Rebekah Leslie, Andrew Tolmach

September 2005 ACM SIGPLAN Notices. Volume 40 Issue 9

Publisher: ACM

Full text available: Pdf (154.82 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 107, Citation Count: 11

We describe a monadic interface to low-level hardware features that is a suitable basis for building operating systems in Haskell. The interface includes primitives for controlling memory manager, hardware, user-mode process execution, and low-level ...

Keywords: Haskell, hardware interface, monads, operating systems, programming logic, verification

6 Voice over IP forensics

Jill Slay, Matthew Simon

January 2008 e-Forensics '08: Proceedings of the 1st international conference on Forensic applications in telecommunications, information, and multimedia and workshop

Publisher: ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering)

Full text available: Pdf (255.49 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 42, Downloads (12 Months): 108, Citation Count: 0

With the tremendous growth in popularity and bandwidth of the Internet, VoIP technology has emerged that allows phone calls to be routed over Internet infrastructure rather than the traditional Public Telephone Network (PSTN) infrastructure. ...

Keywords: forensic computing, voice over internet protocol

7 A principled approach to operating system construction in Haskell



Thomas Hallgren, Mark P. Jones, Rebekah Leslie, Andrew Tolmach

September 2005 ICFP '05: Proceedings of the tenth ACM SIGPLAN international conference on Functional programming

Publisher: ACM

Full text available: Pdf (154.82 KB)

Additional Information: full citation, abstract, references, cited by, index terms

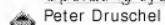
Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 107, Citation Count: 11

We describe a monadic interface to low-level hardware features that is a suitable basis for building

operating systems in Haskell. The interface includes primitives for controlling memory manager hardware, user-mode process execution, and low-level ...

Keywords: Haskell, hardware interface, monads, operating systems, programming logic, verification

8 Operating system support for high-speed communication



Peter Druschel

September 1996 Communications of the ACM, Volume 39 Issue 9

Publisher: ACM

Full text available: Pdf (313.01 KB)

Additional Information: full citation, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 64, Citation Count: 5

9 Mapping irregular applications to DIVA, a PIM-based data-intensive architecture



Mary Hall, Peter Kogge, Jeff Koller, Pedro Diniz, Jacqueline Chame, Jeff Draper, Jeff LaCoss, John G. Jay Brockman, Apoorv Srivastava, William Athas, Vincent Freeh, Jaewook Shin, Joonseok Park
January 1999 Supercomputing '99: Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: ACM

Full text available: Pdf (111.41 KB)

Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 15, Citation Count: 24

10 Eudaemon: involuntary and on-demand emulation against zero-day exploits



Georgios Portokalidis, Herbert Bos

April 2008 Eurosyst '08: Proceedings of the 3rd ACM SIGOPS/EuroSys European Conference on Computer Systems 2008

Publisher: ACM

Full text available: Pdf (381.70 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 102, Citation Count: 0

Eudaemon is a technique that aims to blur the borders between protected and unprotected applications and brings together honeypot technology and end-user intrusion detection and prevention. Eudaemon is able to attach to any running process, and redirect ...

Keywords: honeypots, operating systems, security

11 Computing curricula 2001



CORPORATE The Joint Task Force on Computing Curricula

September 2001 Journal on Educational Resources in Computing (JERIC), Volume 1 Issue 3es

Publisher: ACM

Full text available: Html (2.78 KB), Pdf (613.63 KB) Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 164, Downloads (12 Months): 1685, Citation Count: 23

12

Network system design affects distributed parallel computing

- Jin Guojun, Wang Frank
May 2006 InfoScale '06: Proceedings of the 1st international conference on Scalable information
Publisher: ACM
Full text available: [Pdf](#) (97.15 KB) Additional Information: full citation, abstract, references, index terms
- Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 81, Citation Count: 0
Computational Grid is essential for scientific advance, and advanced technology research and development because single system computing power is restricted by processor clock speed advancing. Increasing processor clock speed starts decreasing due ...
- Keywords: Network on Chip (NoC), System on Chip (SoC), TCP, distributed computation, jumb network design, system resources
- 13 Profiling of symmetric-encryption algorithms for a novel biomedical-implant architecture
Christos Strydis, Di Zhu, Georgi N. Gaydadjiev
May 2008 CF '08: Proceedings of the 2008 conference on Computing frontiers
Publisher: ACM
Full text available: [Pdf](#) (237.41 KB) Additional Information: full citation, abstract, references, index terms
- Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 44, Citation Count: 0
Starting with the implantable pacemaker, microelectronic implants have been around for more than 40 years. A plethora of commercial and research-oriented devices have been developed so far for a range of biomedical applications. In view of an envisioned ...
- Keywords: implantable devices, microarchitectural profiling, symmetric encryption, ultra-low power
- 14 A parallel embedded processor architecture for ATM reassembly
Richard F. Hobson, P. S. Wong
February 1999 IEEE/ACM Transactions on Networking (TON), Volume 7 Issue 1
Publisher: IEEE Press
Full text available: [Pdf](#) (331.21 KB) Additional Information: full citation, references, cited by, index terms
- Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 30, Citation Count: 2
- Keywords: ATM, embedded systems, medium access control, segmentation and reassembly
- 15 SWORD: scalable and flexible workload generator for distributed data processing systems
Kay S. Anderson, Joseph P. Bigus, Eric Bouillet, Parijat Dube, Nagui Halim, Zhen Liu, Dimitrios Peng
December 2006 WSC '06: Proceedings of the 38th conference on Winter simulation
Publisher: Winter Simulation Conference
Full text available: [Pdf](#) (237.60 KB) Additional Information: full citation, abstract, references
- Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 47, Citation Count: 1
Workload generation is commonly employed for performance characterization, testing and benchmarking of computer systems and networks. Workload generation typically aims at simulating or emulating workloads generated by different types of applications, ...
- 16 Eudaemon: involuntary and on-demand emulation against zero-day exploits
Georgios Portokalidis, Herbert Bos
April 2008 ACM SIGOPS Operating Systems Review, Volume 42 Issue 4

Publisher: ACM

Full text available: Pdf (381.70 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 102, Citation Count: 0

Eudaemon is a technique that aims to blur the borders between protected and unprotected appl and brings together honeypot technology and end-user intrusion detection and prevention. Euda able to attach to any running process, and redirect ...

Keywords: honeypots, operating systems, security

17 VMM-independent graphics acceleration

H. Andres Lagar-Cavilla, Niraj Tolia, M. Satyanarayanan, Eyal de Lara

June 2007 VEE '07: Proceedings of the 3rd international conference on Virtual execution environm

Publisher: ACM

Full text available: Pdf (1.52 MB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 322, Citation Count: 0

We have designed and implemented VMGL, a virtual machine monitor (VMM) independent, grap processing unit (GPU) independent, and cross-platform OpenGL virtualization solution. VMGL all applications executing within virtual machines (VMs) to leverage ...

Keywords: VMM-independence, graphics, hardware acceleration, portability, virtualization

18 Proceedings of the 2006 international conference on Wireless communications and mobile computing

Seizo Onoe, Mohsen Guzani, Hsiao-Hwa Chen, Mamoru Sawahashi

July 2006 proceeding

Publisher: ACM

Additional Information: full citation, abstract

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

It is our great pleasure to welcome you to the *International Wireless Communications and Mobil Computing Conference (IWCMC 2006)*. This year's Conference continues its tradition of being th forum for presentation of research results and ...

19 Enabling semantic communications for virtual machines via iConnect

Himanshu Raj, Radhika Niranjan, Sanjay Kumar, Ada Gavrilovska, Balasubramanian Seshasayee, K Schwan

November 2007 VTDC '07: Proceedings of the 3rd international workshop on Virtualization technolo distributed computing

Publisher: ACM

Full text available: Pdf (201.29 KB)

Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 10, Citation Count: 0

iConnect is an abstraction that encapsulates all of a virtual machine's interactions with outside e intent is to exploit semantic information to better support the end-to-end requirements of such ' communications. Focusing on the ...

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